

**B & B**  
**BRAIN AND BODY RADIOSURGERY**  
**2018-2019**

**I° Meeting**  
**“International Stereotactic Radiosurgery**  
**Society (ISRS) integrated course”**  
**BASIC BRAIN RADIOSURGERY**  
**February 08<sup>th</sup> – 09<sup>th</sup>, 2018**

**Fondazione IRCCS**  
**Istituto Neurologico Carlo Besta**  
**Via Giovanni Celoria n. 11 – Milano**

**Required Sponsorship:**

Società Italiana di Neurochirurgia (SINCH)  
Associazione Italiana Radioterapia e Oncologia clinica  
(AIRO)  
Società Italiana del Basicranio (SIB)  
Associazione Italiana Fisica Medica (AIFM)

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**CHAIRPERSONS:**

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**Prof. Barbara Jereczek-Fossa** – Istituto Europeo di Oncologia Milano – Università di Milano  
**Dr. Nadia Di Muzio** – Ospedale San Raffaele – Milano  
**Prof. Marta Scorsetti** – Humanitas Research Hospital – Humanitas University – Milano

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**Cavedon Carlo** – Director Health Physics – Azienda Ospedaliera Universitaria Integrata Verona  
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**Grimod Gianluca** – Neurosurgeon – ASST Lecco  
**Jereczek-Fossa Barbara** – Radiotherapy Director, Istituto Europeo di Oncologia di Milano – Associate Professor in Radiotherapy, Università di Milano  
**Leksell Dan** – Leksell Gamma Knife Society

**Levivier Marc** – Head of the Neurosurgery Service & Director of the Gamma Knife Center in Centre Hospitalier Universitaire Vaudois (CHUV) – Lausanne, Switzerland  
**Locatelli Davide** – Neurosurgery Director – ASST Sette Laghi – Varese  
**Longhi Michele** – Neurosurgeon – Azienda Ospedaliera Universitaria Integrata Verona  
**Maccagnano Carmelo** – Neuroradiologist – Fondazione IRCCS Istituto Neurologico Carlo Besta – Milano  
**Magrini Stefano** – President Italian Association of Radiotherapy and Clinical Oncology (AIRO) and Radiotherapy Director – Spedali Civili Brescia; Professor at Brescia University  
**Marchetti Marcello** – Radiotherapist – Fondazione IRCCS Istituto Neurologico Carlo Besta – Milano  
**Minniti Giuseppe** – Operative Unit of Oncological Radiotherapy, Ospedale Sant’Andrea – Roma  
**Mortini Pietro** – Chairman of Neurosurgery and Radiosurgery Units – Ospedale San Raffaele – Milano  
**Navarria Piera** – Radiotherapy and Radiosurgery Operative Unit – Humanitas Research Hospital – Milano  
**Petasecca Marco** – Centre for Medical Radiation Physics – University of Wollongong – Australia  
**Picozzi Piero** – Section Head Functional Neurosurgery and Gamma Knife – Humanitas Research Hospital – Milano  
**Pinzi Valentina** – Radiotherapist – Fondazione IRCCS Istituto Neurologico Carlo Besta – Milano  
**Piperno Gaia** – Radiotherapy Division – Istituto Europeo di Oncologia – Milano  
**Poliani Pietro Luigi** – Department of Molecular and Translational Medicine, Pathology Unit – University of Brescia School of Medicine – Spedali Civili Brescia  
**Reggiori Giacomo** – Physicist – Humanitas Research Hospital – Milano  
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**Scorsetti Marta** – Associate Professor in Diagnostic Imaging and Radiotherapy – Department of Biomedical Sciences – Humanitas University – Director Radiotherapy and Radiosurgery Department – Humanitas Research Hospital – Milano  
**Stravato Antonella** – Physicist – Humanitas Research Hospital – Milano

Thanks to modern-day state-of-the art technology, today we can deliver ablative individual doses - in single or multiple fractions (up to 5) - in a very precise and accurate fashion to cranial, spine and extra-cranial tumours, also for functional disease, which, until recently, was unthinkable. The application in extra-cranial sites (stereotactic ablative radiotherapy) is virtually a spin-off of intra-cranial stereotactic radiosurgery (SRS) and has been used to treat primary tumours of the lung, liver, kidney, and prostate, as well as oligo-metastatic and oligo-progressive lesions with very interesting results. Meanwhile, new schedules and indications have been proposed to treat large tumours (larger than the conventional 3cm lesions) or lesions located in proximity of organs at risk in the brain. The goal of achieving better outcomes - in terms of local control, survival and lower morbidity - has now a new set of options. In this scenario, this course aims to supply attendees the change to have a theoretical upgrade with frontal lectures, and, at the same time, to verify the knowledge in practice with dedicated hands on sessions.

### PARTICIPANTS

Specialists and graduate students in Radiotherapy – Neurosurgery – Radiosurgery – Health Physics – Oncology – Neurology – Otolaryngology

**Maximum number of attendees: 60**

### REGISTRATION

Registration is compulsory. Registration will be accepted in order of arrival and until all available seats. Please send your agreement by using the registration form by fax or by mail.

The participation fee (€ 50,00) will be paid by bank transfer to the attention of: Fondazione IRCCS Istituto Neurologico C. Besta – Tesoriere Ente: BANCA POPOLARE DI SONDRIO – Agenzia 9 – Viale Romagna, 24 Milano – ABI 05696 – CAB 01608 – CIN A – C/C 6200/21 – IBAN IT26 A056 9601 6080 0000 6200 X21

**Participation is free for: students; AIRO – SIB – SINCH members; specialists of Besta Neurological Institute**

### For further information or registration:

Ufficio Formazione, Aggiornamento e Didattica  
Tel. +39 02 23942547 – Fax +39 02 23942465  
E-mail: [formazione@istituto-besta.it](mailto:formazione@istituto-besta.it)

## February 08th, 2018

8.40am – 9am: **Introduction to educational course** (L. Fariselli – B. Jereczek-Fossa – N. Di Muzio – M. Scorsetti)

9am – 11am: **Plenary session – General overview**  
(chairpersons: L. Fariselli – E. De Martin – S. Magrini)  
*Biblioteca Scientifica*

- ✓ Radiosurgery – the Origins and Development (D. Leksell)
- ✓ Radiosurgery principles: Prescription models, target volumes and treatment analysis issue (C. Cavedon)
- ✓ Radiobiological basis (D. Bettega)

11am – 1pm: **Parallel sessions**  
**I Session – Radiosurgical treatment of brain malignancies**  
(chairpersons: F. DiMeco – N. Di Muzio – B. Jereczek-Fossa)  
*Biblioteca Scientifica*

- ✓ Multiple metastases (G. Piperno)
- ✓ Immunotherapy and SRS in brain metastasis (F. Dhermain)
- ✓ SRS on surgical cavity (S. Scoccianti)
- ✓ Radio-resistant metastases (P. Navarra)
- ✓ SRS in Gliomas (I. Germano)

**II Session – Technology evolution in radiosurgery**  
(chairpersons: A. Del Vecchio – C. Cavedon)  
*Aula Pluribus*

- ✓ Technical overview of the treatment systems: where do we stand? (D. Cusumano)
- ✓ Treatment planning algorithms through a magnifying glass (G. Reggiori, A. Stravato)
- ✓ The dosimetric challenge: small field dosimetry and new detectors (M. Petasecca)
- ✓ The dosimetric challenge: patient QA in radiosurgery (E. Rondi – C. Garibaldi)

*Lunch Break*

2.15pm – 3.15pm: **Parallel sessions**

**I Session – Benign meningiomas**  
(chairpersons: D. Locatelli – G. Minniti – M. Scorsetti)  
*Biblioteca Scientifica*

- ✓ Bio-molecular features in meningiomas (P. L. Poliani)
- ✓ Neuroradiology for SRS (C. Maccagnano)
- ✓ SRS in meningiomas (V. Pinzi)

**II Session – Practical skill for physicists**  
(chairpersons: F. Ghielmetti – M.L. Fumagalli – E. De Martin) – *Aula Pluribus*

*Hands-on session*

3.15pm – 6.30pm: **Parallels sections on gliomas, metastases and meningiomas**

Session A – Hands-on (V. Pinzi – M. Marchetti)  
Session B – Clinical cases (G. Grimod – G. Piperno)

## February 09th, 2018

*Biblioteca Scientifica*

9am – 11am: **Radiosurgery in functional disorders**  
(chairpersons: P. Picozzi – Franzini A.)

Trigeminal neuralgia (A. Franzin)  
Movement disorders (M. Marchetti)  
HFU Device: From the principles to the practice (A. Franzini)  
*Discussion*

11am – 12.30am: Hands-on and clinical cases (A. Franzini – M. Marchetti – A. Franzin – M. Longhi)

*Lunch Break*

1.30pm – 2.30pm: **Sporadic small vestibular schwannoma**  
(chairpersons: L. Fariselli – P. Mortini)

Wait and see or early SRS? (M. Levivier)  
SRS Technique and imaging (U. Fornezza)  
*Discussion*

2.30pm – 4pm  
Hands-on (M. Marchetti – U. Fornezza)  
Clinical cases (M. Longhi – L. Fariselli)